

MFJ

MFJ-1699 10 Band HF/VHF Mobile Antenna

The MFJ-1699 is a 10 band mobile whip that covers 75/80, 40, 30, 20, 17, 15, 12, 10, 6, and 2 Meters. Tuning the whip is as easy as moving the "Wander Lead" to the band tap on the coil assembly and adjusting the adjustable top whip for lowest SWR. The antenna will handle 200W PEP and comes with either an MFJ-1699S PL-259 mount or MFJ-1699T 3/8-24 stud mount.

Antenna Mounting

Placing the antenna on the center of the roof of the vehicle is suggested for best SWR and radiation efficiency. The more ground plane the better the operation. Satisfactory results may be obtained when mounting on locations such as trunk lip, fenders and trunk deck or mirror mounts. In these locations the antenna may not tune exactly according to the tuning chart and may not reach lowest SWR.

If a magnet mount base is used, it is suggested that the mount or the cable from the base be grounded to the chassis where the cable comes into the vehicle to improve grounding and reduce "antenna currents" on the outside of the coax that could cause RF problems in the radio or vehicle electronics. Use a heavy duty magnet mount that has enough pull to hold the antenna to the vehicle at highway speeds.

Mounting the antenna in a place that places the whip too close to metal sides of the vehicle such as just behind a pickup truck cab or bumper mount may not allow tuning for a low SWR to be achieved.

When tightening the antenna to the base turn the antenna by gripping the metal base and NOT the loading coil. Turning the loading coil may break the connection between the coil and base.

Tuning

Except for 75/80 Meters move the "Wander Lead" to between TAP 1 and the TAP for the band you want to use. 75/80 Meters does not use the "Wander Lead". Adjust the whip length for minimum SWR using the Allen Wrench supplied. Marking or measuring and recording the length can speed retuning on the fly. Whip lengths are approximate and will vary depending on where the antenna is mounted on the vehicle and how well it is grounded. The "Wander Lead" may be loosely wrapped around the bottom portion of the loading coil to take up slack. This may change the tuning a little.

Accessories and Mounts available from MFJ

3/8-24 Mount

MFJ-335BT 5" Magnet Mount
MFJ-336T Goliath Tri-Magnet Mount
MFJ-345T Trunk Lip Mount
MFJ-348T Deluxe Lip Mount
MFJ-342T Mirror Mount

PL-259 Mount

MFJ-336S Goliath Tri-Magnet Mount
MFJ-345S Trunk Lip Mount
MFJ-348S Deluxe Lip Mount
MFJ-342S Mirror Mount

MFJ Enterprises, Inc.

300 Industrial Park Rd.
Starkville, MS 39759 USA
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Tuning Chart				
TAP	BAND	Whip Length Inches	Whip Length millimeters	Overall Length Inches
1	75/80	14/24	355/609	39.5/49.5
2	40	19.25	488	44.75
3	30	18.75	476	44.25
4	20	17.25	438	42.75
5	17	20.25	514	45.75
6	15	21.75	552	47.25
7	12	17.50	444	43.00
8	10	24.00	609	49.50
9	6	22.00	558	47.50
9	2	24.00	609	49.50

12 MONTH LIMITED WARRANTY

MFJ Enterprises, Inc. Warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free from defects in material and workmanship for a period of 12 months from date of purchase provided the following terms of this warranty are satisfied.

1. The purchaser must retain the dated proof-of-purchase (bill of sale, canceled check, credit card or money order receipt, etc.) describing the product to establish the validity of the warranty claim and submit the original or machine reproduction of such proof-of-purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery shall be cause to void any and all warranty terms immediately.
2. MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warranty, provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for \$12.00 covering postage and handling.
3. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof-of-purchase and a \$8.00 personal check, cashiers check, or money order must be provided to cover postage and handling.
4. This warranty is NOT void for owners who attempt to repair defective units. Technical consultation is available by calling (662) 323-5869.
5. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
6. Wired and tested PC board products are covered by this warranty provided only the wired and tested PC board product is returned. Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, or cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepai red.
7. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.
8. Out-of-warranty Service: MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is shipped prepaid. All repaired units will be shipped COD to the owner. Repair charges will be added to the COD fee unless other arrangements are made.
9. This warranty is given in lieu of any other warranty expressed or implied.
10. MFJ Enterprises, Inc. reserves the right to make changes or improvements in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.
11. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, Mississippi 39759, USA and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.
12. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

